

Custom Peptide Synthesis Certificate of Analysis

Sequence Name: AA69.1 Scale: Research

Sequence:

Length: 19

N ⁺ End:	C ⁺ End:
N-TGR / GMS / GGR / SSR / TRR / ETQ /	
L - C ⁺	

Molecular Weight:

260432318.35

Quantity:

20mg 8.1113 mmole

Form: Lyophilized powder.

Analysis:

* HPLC

* Amino acid

* Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

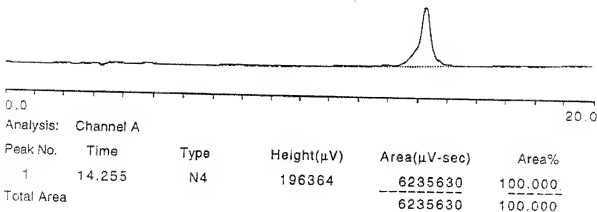
Lot No. 10017449

PLEASE SEE ATTACHED FOR QUALITY CONTROL DATA

Genemed Synthesis, Inc.

213 East Grand Avenue, South San Francisco, CA 94080 U.S.A.
Tel: 650-952-8193 Fax: 650-952-9540 www.genemedsyn.com

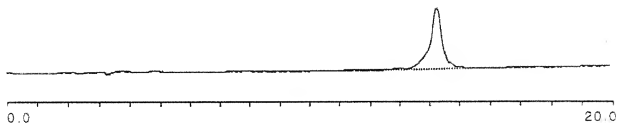
FOR RESEARCH USE ONLY Not for diagnostic and medical applications



Data: 0-100 pepanal 006

Sample: 17449 25µl injecteu
Column: Vydac C18 1ml/min
Buffers: A=0.1%TFA; B=0.1%TFA in CH3CN
Gradient: 0-100%B, 20'
Monitor: 220nm, 1.0 AUFS

Processing File: profile#1
Method: 0-100 pepanal
Inject Vol:
Sampling Int: 0.1 Seconds
Data:



Analysis: Channel A

Peak No.	Time	Type	Height(µV)	Area(µV-sec)	Area%
1	14.255	N4	196364	<u>6235630</u>	<u>100.000</u>
Total Area				6235630	100.000

Custom Peptide Synthesis Certificate of Analysis

Sequence Name: AA70.1 Scale: Research

Sequence:

N ⁺ End	C ⁺ End
N ⁺ -SGG / NRA / RQE / RLQ / RRR / ETQ /	
V - C ⁺	

Length: 19

N ⁺ End	C ⁺ End

Molecular Weight:

~~2298~~ 2522.52 RK

Quantity:

20 mg 7.4112 mmole

Form: Lyophilized powder.

Analysis:

* HPLC

* Amino acid

* Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

Lot No. 10017450

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Laser: 2230
Scans Averaged: 61
Pressure: 6.61e-07
Timed Ion Selector: 16.1 OFF
Mirror Ratio: 1.070
PSD Mirror Ratio:
Negative Ion
Low Mass Gate: OFF

Date:

Data: 0-100 pepanar-

-016

Sample: 17450 25 μ l injected

Column: Vydac C18 1ml/min

Buffers: A=0.1%TFA; B=0.1%TFA in CH₃CN

Gradient: 0-100%B, 20'

Monitor: 220nm, 1.0 AUFS

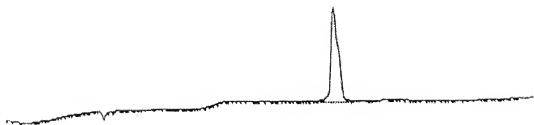
Processing File: profile#1

Method: 0-100 pepanar

Inject Vol:

Sampling Int: 0.1 Seconds

Data:



0.0

Analysis: Channel A

Peak No.	Time	Type	Height(μ V)	Area(μ V-sec)	A
1	10.780	N	96091	1355988	100
Total Area				1355988	100

Custom Peptide Synthesis
Certificate of Analysis

Sequence Name: AA721 Scale: Research

Sequence:

Length: 20

N ⁺ End	C-End
N ⁺ -AAG / GRS / ARG / GRL / QGR / RET /	
AL -- C	
Y ⁺ End	

Molecular Weight:

Quantity:

Form: Lyophilized powder.

Analysis:

- * HPLC
- * Amino acid
- * Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

Lot No. 10017517

PLEASE SEE ATTACHED FOR QUALITY CONTROL DATA

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Tel: 650-952-8193 Fax: 650-952-9540 www.genemedsyn.com

FOR RESEARCH USE ONLY. Not for diagnostic and medical applications

Data:

Processing File: profile#1
Method: 0-100 pepanal
Inject Vol: 0.1 Seconds

Sample:

17517 25µl injected
Column: Vydac C18 1ml/min
Buffer: A=0.1%TFA; B=0.1%TFA in CH3CN
Gradient: 0-100%B, 20'
Monitor: 220nm, 1.0 AUFS 2

Data: 0-100

-014



Certificate of Analysis

Peptide Name: AA80.1

Run Number: 17702

Sequence: Biotin-Gly-Arg-Trp-Thr-Gly-Arg-Ala-Met-Ser-Ala-Trp-Lys-Pro-Thr-Arg-Arg-Glu-Thr-Glu-Val-OH

Theoretical Mass(M+H⁺): ~~2603.0~~ 2600.51

Mass Found(M+H⁺): 2602.3

Solubility: Dissolve 1mg of peptide in 1ml Water

Appearance: White Powder

HPLC Purity: > *N/A %

Amount Delivered: 100 mg *Customer requested unpurified peptide

Storage : Keep Refrigerated

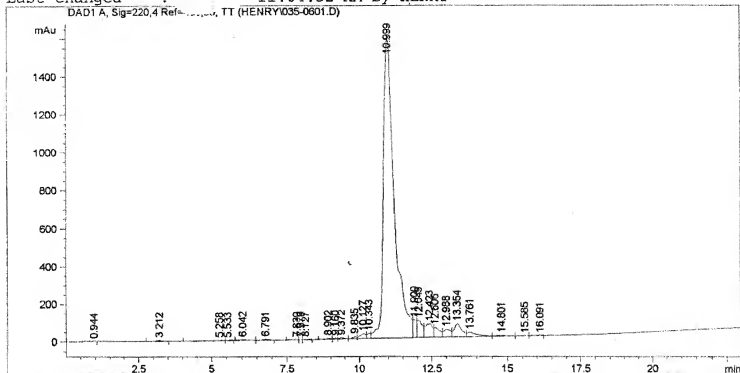
Remarks: Not for Human Use. Research Purposes Only.

Release By: Jaswinder Kaur **Date:** _____
Quality Control

```

=====
Injection Date   :                               Seq. Line :    6
Sample Name     : AA80.1                       Vial       :   35
Acq. Operator   : HENRY                        Inj        :    1
                                                Inj Volume : 5 µl
Different Inj Volume from Sequence !      Actual Inj Volume : 2 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\DEF_LC.S
Method          : C:\HPCHEM\1\METHODS\0-100-20.M
Last changed    : 11:04:52 AM by HENRY
=====

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                        Area Percent Report
=====

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```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000

```

Signal 1: DAD1 A, Sig=220,4 Ref=450,80, TT
Results obtained with standard integrator!

Peak #	RetTime [min]	Type	Width [min]	Area [mAu*s]	Height [mAu]	Area %
1	0.944	BV	1.0963	27.31302	2.94576e-1	0.0558
2	3.212	BV	0.2199	65.38581	4.18458	0.1336
3	5.258	PV	0.3324	38.73496	1.52027	0.0792
4	5.533	VB	0.1817	8.00819	7.34552e-1	0.0164
5	6.042	EV	0.1638	48.28724	4.21066	0.0987
6	6.791	PV	0.1581	51.54432	4.71076	0.1053
7	7.830	PV	0.2492	13.29615	6.67421e-1	0.0272
8	7.979	VV	0.0858	3.90877	6.33285e-1	7.988e-3
9	8.127	VB	0.1281	7.46610	7.92417e-1	0.0153
10	8.902	PV	0.1558	68.03886	5.92069	0.1390
11	9.160	VV	0.1115	43.50458	5.49541	0.0889

Custom Peptide Synthesis

Certificate of Analysis

Sequence Name: _____ Scale: _____ Research

Sequence:	N ⁺ end	C ⁺ end
Length: 20	N ⁺ - AVG / GRP / ARG / GRL / QGR / RQT /	QV - C ⁺

Molecular Weight: ~~247~~ 2345.49

Quantity: 2.0 mg 0.5410 nmole

Form: Lyophilized powder.

Analysis:

- HPLC
- Amino acid
- Mass spectroscopy

Storage and Stability: Stable for one year at -20 °C.

Lot No. 10017523

PLEASE SEE ATTACHED FOR QUALITY CONTROL DATA

Genentech Synthesis, Inc.
213 East Grand Avenue, South San Francisco, CA 94080 U.S.A.
Tel: 650-952-8193 Fax: 650-952-9540 www.genentechsyn.com

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7 ms

1007 MS

Collected

10:31 AM Sample 45



3500

3000

Mass (m/z)

Genentech Synthesis, Inc.

213 East Grand Avenue, South San Francisco, CA 94080 U.S.A.
Tel: 650-952-8193 Fax: 650-952-9540 www.genentechsyn.com

Laser 2190

Scans Averaged 12

Pressure: 8.00e-07

Low Mass Gate OFF

Mirror Ratio 1.070

PSD Mirror Ratio

Timed Ion Selector: 16.1 OFF

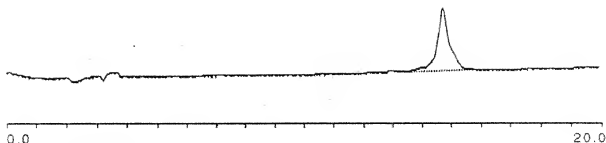
Negative Ions OFF

CONTINUED

Date:
Data: 0.000 pepanal- 007

Sample: 17523 25 μ l injected
Column: Vydac C18 1ml/min
Buffers: A=0.1%TFA; B=0.1%TFA in CH3CN
Gradient: 0-100%B, 20'
Monitor: 220nm, 1.0 AUFS

Processing File: profile#1
Method: 0-100 pepanal
Inject Vol:
Sampling Int: 0.1 Seconds
Data:



Analysis: Channel A

Peak No.	Time	Type	Height(μ V)	Area(μ V-sec)	Area%
1	14.721	N11	112398	3014595	100.000
Total Area				3014595	100.000



Certificate of Analysis

Peptide Name: AA66.1

Run Number: 17700

Sequence: BIOTIN-Thr-Gly-Ser-Ala-Leu-Gln-Ala-Trp-Arg-His-Thr-Ser-Arg-Gln-Ala-Thr-Glu-Ser-Thr-Val-OH

Theoretical Mass(M+H⁺): 2414.7

Mass Found(M+H⁺): 2414.3

Solubility: Dissolve 1mg of peptide in 1ml Water

Appearance: White Powder

HPLC Purity: > *N/A %

Amount Delivered: 100 mg *Customer requested unpurified peptide

Storage : Keep Refrigerated

Remarks: Not for Human Use. Research Purposes Only.

Release By: Jaswinder Kaur **Date:** _____
Quality Control

Last changed : 11:04:52 AM By NENK1
 DAD1 A, Sig=220.4 Ref=, , (HENRY042-0301.D)

Chromatogram showing detector response (mAu) versus time (minutes). The plot displays several peaks, with the most prominent one at 10.963 minutes. Other labeled peaks are listed below:

Retention Time (min)
1.042
3.224
5.289
5.659
6.170
7.015
7.475
7.771
8.341
8.953
9.770
10.311
10.611
10.963
12.229
13.137
13.681
14.715

Page 1 of 2

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PRISM Matrix ELISA G Assay

Date/Initials

Reagents and Supplies

- Nunc Polysorp 96 well Immuno-plate, Nunc cat#62409-005 batch# 038642
- PBS pH 7.4 (phosphate buffered saline, 8g NaCl, 0.29g KCl, 1.44g NaH₂PO₄, 0.24g KH₂PO₄, add H₂O to 1L and pH 7.4; 0.2 µ filter) AVC lot# 47-82-2
- Assay Buffer: 2% BSA in PBS; 20% of bovine serum albumin per liter PBS, fraction V, ICN Biomedicals, cat#IC1514283 AVC lot# 47-11-3
- Goat anti-GST polyclonal Ab, stock 5 mg/ml, stored at 4°C, Amersham Pharmacia cat#27-4577-01, lot# 141542
- Dilute 1:1000 in PBS, final concentration 5 µg/ml. Date prepared 9-7-02
- HRP-Streptavidin, 2.5mg/2ml stock stored @ 4°C, Zymed cat#43-4323, lot# 16183-004 dilute 1:2000 into Assay buffer, final [0.5 µg/ml]
- Wash Buffer, 0.2% Tween 20 in 500mM Tris pH 8.0, AVC lot# 97-102-02
- Biotinylated peptide (NPLC purified, stock solution store in -20°C freezer #7)
- GST-PRISM proteins (stock stored @ -80°C, after 1st thaw store in -10°C freezer #7)
- TMB (3,3',5,5'-tetramethylbenzidine), ready to use, Dako cat#S100, lot# Q960
- 0.1M H₂SO₄, Sigma cat.#S155, AVC lot# 97-83-01
- 12-w microlonated pipette & tips
- 50 ml reagent reservoirs, Costar#4870
- 50, 15 ml polypropylene conical tubes
- Costar Transer 96 Costar#7605
- Transer 96 Cartridge Costar#7610
- Transer Costar
- Cluster tubes
- Molecular Devices microplate reader (450 & 650 nm filters)
- SoftMax Pro software
- When using reagents stored at 4°C or -20°C, remove & keep on ice

Protocol

1. Coat plate with 100 µl of 5 µg/ml anti-GST, ON @ 4°C
2. Dump contents of plate & out tap dry on paper towels
3. Add 200 µl Assay Buffer for 2 hrs at 4°C
4. Prepare proteins and peptides in Assay Buffer
5. Wash 3X with cold PBS*
6. Add proteins at 50 µl per well, incubate 1 to 2 hrs at 4°C
7. Wash 3X with cold PBS*
8. Add peptides at 50 µl per well on ice (write time on plate)
9. Incubate on ice after last peptide has been added for exactly 10 minutes
10. Place at room temp for exactly 20 minutes
11. Prepare HRP-Streptavidin within 10 minutes of time of use
12. Promptly wash 3X with cold PBS
13. Add 100 µl per well of HRP-Streptavidin (write time on plate)
14. Incubate at 4°C for exactly 20 minutes
15. Turn on plate reader and prepare filter (store as 0105011x1)
16. Promptly wash 5X with Wash Buffer
17. Add 100 µl/well TMB substrate (write time on plate)
18. Incubate in dark at room temp for a maximum of 30 minutes
19. Check plate periodically; if necessary take early readings at 650 nm
20. Stop reaction with 100 µl of 0.1M H₂SO₄, 30 min. after adding TMB
 - * Take last reading at 450 nm soon after stopping reaction
 - * Leave last PBS in wells until ready for next step, i.e. do not let plates dry out

PEPTIDE

	1	2	3	4	5	6	7	8	9	10	11	12
A	PROTEIN 1											
B	PROTEIN 2											
C	PROTEIN 3											
D	PROTEIN 4											
E	PROTEIN 5											
F	PROTEIN 6											
G	AST + LINKER CONTROL											
H	STANDARD CURVE											

Standard Curve

Glucose	1, 7	2, 8	3, 9	4, 10	5, 11	6, 12
KIAA1634 (1)(35)	←			0.1 µg/ml		→
DNAM-1 (CA21L)	100 µM	10 µM	1 µM	0.1 µM	0.01 µM	0.001 µM

To Page No 25

Witnessed & Understood by me,

Date

Invented by

Date

Recorded by

Jan 5

TITLE 186x6

11A

Book No. 157

CONTINUED

From Page No. X

PRISM Matrix ELISA G Assay

Date/Initial 8/7/01 K.C.BK

Reagents and Supplies

- Nunc Polysorp 96 well Immuno-plate, Nunc cat#G249-005 batch# 045987
- PBS pH 7.4 (phosphate buffered saline, 8g NaCl, 0.29g KCl, 1.44g Na_2HPO_4 , 0.24g KH_2PO_4 , add H_2O to 1L, and pH 7.4; 0.2 μ filter) AVC lot# 97-43-04
- Assay Buffer: 2% BSA in PBS (20g of bovine serum albumin per liter PBS, fraction V, JCN Biomedicals, cat#FC15142983 AVC lot# 97-100-02
- Coat and-GST polyclonal Ab, stock 5mg/ml, stored at 4°C, Amersham Pharmacia cat#27-4577-01, lot# JLS-185
 - Dilute 1:1000 in PBS, final concentration 5 μ g/ml. Date prepared: 8/1/01
- HRP-Streptavidin, 2.5mg/2ml stock stored @ 4°C, Zymed cat#43-4323, lot# 1212-103 dilute 1:2000 into Assay buffer, final [0.5 μ g/ml]
- Wash Buffer, 0.2% Tween 20 in 50mM Tris pH 8.0, AVC lot# 97-46-02
- Biotinylated peptides (HPLC purified, stock solution store in -20°C freezer #7)
- GST-PRISM proteins (stock stored @ -80°C, after 1" thaw store in -10°C freezer #7)
- TMB (3,3',5,5'-tetramethylbenzidine), ready to use, Dako cat#S1600, lot# 07160
- 0.18M H_2SO_4 , Sigma cat#S1576, AVC lot# 97-46-03
- 12-w well multichannel pipette & tips
- 50 ml reagent reservoirs, Costar#4870
- 50, 15 ml polypropylene conical tubes
- Costar Transstar 96 Costar#7605
- Transstar 96 Cartridge Costar#7610
- Transstar Costar#
- Cluster tubes
- Molecular Devices microplate reader (450 & 650 nm filters)
- SoftMax Pro software

When using reagents stored at 4°C or -20°C, remove & keep on ice

Protocol

- Coat plate with 100 μ l of 5 μ g/ml anti-GST, ON @ 4°C
- Wash contents of plate & out top dry on paper towels
- Add 200 μ l Assay Buffer for 2 hrs at 4°C
- Prepare proteins and peptides in Assay Buffer
- Wash 3X with cold PBS*
- Add proteins at 50 μ l per well, incubate 1 to 2 hrs at 4°C
- Wash 3X with cold PBS*
- Add peptides at 50 μ l per well on ice (write time on plate)
- Incubate on ice after last peptide has been added for exactly 10 minutes
- Place at room temp for exactly 20 minutes
- Prepare HRP-Streptavidin within 10 minutes of time of use
- Promptly wash 3X with cold PBS
- Add 100 μ l per well of HRP-Streptavidin (write time on plate)
- Incubate at 4°C for exactly 20 minutes
- Turn on plate reader and prepare files (store as 0105011.kt)
- Promptly wash 3X with Wash Buffer
- Add 100 μ l/well TMB substrate (write time on plate)
- Incubate in dark at room temp for a maximum of 30 minutes
- Check plate periodically; if necessary take early readings at 650 nm
- stop reaction with 100 μ l of 0.18M H_2SO_4 , 30 min. after adding TMB
- Take last reading at 450 nm soon after stopping reaction
 - Leave last PBS in wells until ready for next step.
 - I.e. do not let plates dry out

PEPTIDE

	1	2	3	4	5	6	7	8	9	10	11	12
A	PROTEIN 1											
B	PROTEIN 2											
C	PROTEIN 3											
D	PROTEIN 4											
E	PROTEIN 5											
F	PROTEIN 6											
G	GST-LINKER CONTROL											
H	STANDARD CURVE											

Standard Curve

Column	1,7	2,8	3,9	4,10	5,11	6,12
PSD95(1) #143.1						
Tex AA56L	5 μ M	1.19 μ M	0.283 μ M	0.067 μ M	0.016 μ M	0.004 μ M

186x6

183x6

36.2 } → Neurexin - differently made
 36.3 } histidylated peptides for comparison
 80.1 HPV 26
 215 HIV
 200 Serotonin
 258 Noradrenaline

To Page No. 5

Witnessed & Understood by me,

Marjorie Jones

Date

Invented by

Dea

Recorded by

Dea Jones

$$186 \times 611A$$

Project No. _____
Book No. 157

From Page No 86.

[illegible]

To Page No. 5

tnessed & Understood by me,

Date _____

Invented by

Date _____

Recorded by _____

Recorded by Debra Ann Culmer

Page No. X

PRISM Matrix ELISA G Assay

Antibody KC, BK

Reagents and Supplies

Nunc Polyprop 96 well Immuno-plate, Nunc cat#62409-005 batch# 045987Bov pH 7.4 (phosphate buffered saline, 8g NaCl, 0.29g KCl, 1.44g Na_2HPO_4 , 0.24g KH_2PO_4 , add H_2O to 1L and pH 7.4, 0.2 μ filter) AVC lot# 47-95-04Assay Buffer: 2% BSA in PBS (20g of bovine serum albumin per liter PBS, fraction V, CN Biomedicals, cat#C15142983) AVC lot# 47-94-01 04Anti-mouse GST polyclonal Ab, stock 5 mg/ml, stored at 4°C, Amersham Pharmacia cat#74577-01, lot# 191545Dilute 1:1000 in PBS, final concentration 5 μ g/ml. Date prepared, 10/12/00RSP-Streptavidin, 2.5mg/2ml stock stored @ 4°C, Zymed cat#43-4323, lot# 18162402Wash Buffer, 0.2% Tween 20 in 500mM Tris pH 8.0, AVC lot# 97-87-3

Biotinylated peptides (HPLC purified, mock solution store in -20°C freezer #1)

DST-PRISM proteins (stock stored @ -80°C, after 1st draw store in -10°C freezer #1)TMB (1,3,5-t, 3,5-tetramethylbenzidine), ready to use, Dako cat#S1600, lot# 071603.18M H_2SO_4 , Sigma cat.#S1526, AVC lot# 97-85-01

12-w multichannel pipetter & tips

30 ml reagent reservoirs, Costar#4670

96, 15 ml polypropylene conical tubes

Coster Transstar 96 Costar#7605

Transstar 96 Cartridge Costar#7610

Transstar Costar

Cluster tubes

Molecular Devices microplate reader (450 & 650 nm filters)

SoftMax Pro software

see using reagents stored at or 4°C or -20°C, remove & keep on ice

Notes

Coat plate with 100 μ l of 5 μ g/ml anti-GST, ON @ 4°C

Dump contents of plate & cut tap dry on paper towels

Add 200 μ l Assay Buffer for 2 hrs at 4°C

Prepare proteins and peptides in Assay Buffer

Wash 3X with cold PBS*

Add proteins at 50 μ l per well, incubate 1 to 2 hrs at 4°C

Wash 3X with cold PBS*

Add peptides at 50 μ l per well on ice (write time on plate)

Incubate on ice after last peptide has been added for exactly 10 minutes

Place at room temp for exactly 20 minutes

Prepare HRP-Streptavidin within 10 minutes of time of use

Promptly wash 3X with cold PBS

Add 100 μ l per well of HRP-Streptavidin (write time on plate)

Incubate at 4°C for exactly 20 minutes

Turn on plate reader and prepare files (store as 0105011.kt1)

Promptly wash 3X with Wash Buffer

Add 100 μ l/well TMB substrate (write time on plate)

Incubate in dark at room temp for a maximum of 30 minutes

Check plate periodically: if necessary take early readings at 450 nm

stop reaction with 100 μ l of 0.18M H_2SO_4 , 30 min. after adding TMB

Take last reading at 450 nm soon after stopping reaction

* Leave last PBS in wells until ready for next step,

i.e. do not let plates dry out

PEPTIDE

	1	2	3	4	5	6	1	2	3	4	5	6
	1	2	3	4	5	6	7	8	9	10	11	12
A	PROTEIN 1											
B	PROTEIN 2											
C	PROTEIN 3											
D	PROTEIN 4											
E	PROTEIN 5											
F	PROTEIN 6											
G	GST + LINKER CONTROL											
H	STANDARD CURVE											

Standard Curve

Column	1,7	2,8	3,9	4,10	5,11	6,12
PSD5(1) #143.1						
Tax AA56L	5 μ M	1.19 μ M	0.283 μ M	0.067 μ M	0.016 μ M	0.004 μ M

To Page No. 18

Witnessed & Understood by me,

Date

Invented by

Date

Recorded by

Marjorie Jones

Let Meins Carl M. B.

69x18 8.1A

Page No. 20

Worksheet										Worksheet									
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BIOGRAPHICAL SKETCH OF PETER S. LU, M.D.

NAME Lu, Peter Sin-yi	POSITION TITLE President/CEO Arbor Vita Corporation		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
California Institute of Technology	B.S.	1977	Biology
University of Washington	M.S.	1980	Microbiology/Immunology
University of Washington Medical School	M.D.	1988	Medicine

A. Positions and honors.

Positions and Employment

1988-1989	Medical intern, Internal Medicine; University of Washington Medical School
1989-1994	Resident and research fellow, Department of Dermatology; Stanford University
1992-1998	Post-Doctoral fellow, Howard Hughes Medical Institute; Stanford University
1992-1998	Clinical Instructor, Attending, Psoriasis Day Care Center, Department of Dermatology, Stanford Medical School
1995-present	Director, Stanford Papua New Guinea Medical Project
1998-present	Founder, President, CEO, Arbor Vita Corporation
2002-present	Medical Director, Community Pregnancy Center, STD clinic

Research Experience and Appointments

1974-1976	Mechanism of antibody diversity; California Institute of Technology; advisor Leroy Hood, M.D./Ph.D.
1977-1978	Gene regulation in development; California Institute of Technology; advisor Eric Davidson, Ph.D.
1978-1981	Role of idiotypic network in tumor immunity; University of Washington; advisor Robert Nowinski, Ph.D.
1981-1984	Eukaryotic gene regulation; University of Washington; advisor Harold Weintraub, M.D./Ph.D.
1992-1998	Adhesion molecules in T cell activation; Howard Hughes Medical Institute, Stanford University; advisor Mark M. Davis, Ph.D.

Honors

1988	Alpha Omega Alpha, University of Washington
1991	Resident Teaching Award, Stanford Medical School
1991	Paul H. Jacobs Award, Stanford Medical School
2001-Present	Principal Investigator of Numerous Grants from the National Institutes of Health

B. Peer-reviewed publications (in chronological order).

Murata, Y., Martin, C. B., Ikenoue, T., Lu, P. S. (1978). Antepartum evaluation of the pre-ejection period of the fetal cardiac cycle. *Am. J. Ob/Gyn.* 132: 278-284.

Kindel, S., Lu, P. S., Smoller, B. (1994). Intravascular crystals provide a diagnostic clue in the diagnosis of monoclonal cryoglobulinemia. *J. Eur. Acad. Dermatol. Venereol.* 3: 185-188.

Messika, E. J., Lu, P. S., Sung, Y. J., Yao, T., Chi, J. T., Chien, Y. H., Davis, M. M. (1998). Differential effect of B lymphocyte-induced maturation protein (Blimp-1) expression on cell fate during B cell development. *J. Exp. Med.* 188: 135-146